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TITLE: SHOCK DAMPING DEVICE FOR  
MOVER

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To enhance durability with no generation of mechanical wear, by damping a shock between a mover and a fixed member through repulsive force generated between a permanent magnet and an electromagnet.

CONSTITUTION: A shock damping device is applied to a mover 6 which moves running on a fixed bed part 5a formed on a fixed member 5. If the mover 5 moves to the side of a position restricting part 5b along a guide shaft 11, the device, which actuates a control unit 9 by a detecting switch, excites an electromagnet 8. And if the mover 6 approaches the position restricting part 5b, the electromagnet 8 and a permanent magnet 12 come to repel each other. Here from the fact that repulsive force between each magnet 8, 12 is in inverse proportion to a square of distance, the device, in which the repulsive force

acceleratively increases as the mover 6 approaches the position restricting part 5b, decelerates the mover 6 to be stopped at an increasing temp.

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